<110> GenoMax Company Ltd
<120> Randomised DNA libraries and double-stranded RNA libraries, use and method of production thereof

<130> P06031PC00
<140> PCT/SE2003/001077
<141> 2003-06-23
<150> US 60/390,108
<151> 2002-06-21
<160> 45
<170> PatentIn version 3.1

<210> 1
<211> 29
<212> DNA
<213> Artificial Sequence
<220>
<223> primer
<400> 1
ggaattcgaa cgctgacgtc atcaacccg                                          29

<210> 2
<211> 35
<212> DNA
<213> Artificial Sequence
<220>
<223> primer
<400> 2
gaagatctgt ctcatacaga acttataaga ttccc                                   35

<210> 3
<211> 500
<212> DNA
<213> Artificial Sequence
<220>
<221> misc-feature
<222> (7)...(7)
<223> n=a, "t", "c", or"g"
<221> misc-feature
<222> (9)...(9)
<223> n=a, "t", "c", or"g"
<400> 3
tccaggnanc gcgggcccag tgtcactagg cgggaacacc cagcgcgcgt gcgccctggc     60

aggaagatgg ctgtgaggga caggggagtg gcgccctgca atatttgcat gtcgctatgt    120

gttctgggaa atcaccataa acgtgaaatg tctttggatt tgggaatctt ataagttctg    180

tatgagacag atcttcaata ttggccatta gccatattat tcattggtta tatagcataa    240

atcaatattg gctattggcc attgcatacg ttgtatctat atcataatat gtacatttat    300

attggctcat gtccaatatg accgccatgt tggcattgat tattgactag ttattaatag    360

taatcaatta cggggtcatt agttcatagc ccattatggg agttccgcgt tacataactt    420

acggtaaatg gcccgcctgg ctgaccgccc aacgacccccc gcccattgac gtcaataatg    480

acgtatgttc ccatagtaac                                                 500

<210> 4

```
<211>   38
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   primer
<400>   4
acgcgtcgac gaattcgaac gctgacgtca tcaacccg                    38

<210>   5
<211>   36
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   primer
<400>   5
cccaagcttg tctcatacag aacttataag attccc                      36

<210>   6
<211>   50
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   oligo DNA
<400>   6
ggggaagatc taaaaaaata aatgaatcaa gaacattttt aagcttgggg       50

<210>   7
<211>   50
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   oligo DNA
<400>   7
ccccaagctt aaaaatgttc ttgattcatt tattttttta gatcttcccc       50

<210>   8
<211>   50
<212>   DNA
<213>   Artificial Sequence
<220>
<221>   misc-feature
<222>   (17)...(35)
<223>   n= a, "t", "c", or"g"
<400>   8
ggggaagatc taaaaannnn nnnnnnnnnn nnnnnttttt aagcttgggg       50

<210>   9
<211>   51
<212>   DNA
<213>   Artificial Sequence
<220>
<221>   misc-feature
<222>   (17)... (36)
<223> n= a, "t", "c", or"g"
<400>   9
ggggaagatc taaaaannnn nnnnnnnnnn nnnnnntttt taagcttggg g      51

<210>   10
<211>   52
<212>   DNA
<213>   Artificial Sequence
<220>
<221>   misc-feature
```

```
<222>   (17)...(37)
<223>   n= a, "t", "c", or"g"
<400>   10
ggggaagatc taaaaannnn nnnnnnnnnn nnnnnnnttt ttaagcttgg gg        52


<210>   11
<211>   15
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   primer
<400>   11
ccccaagctt aaaaa                                                 15


<210>   12
<211>   19
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   19 base pair clone
<400>   12
aaagggttta cgtggttgg                                            19


<210>   13
<211>   19
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   19 base pair clone
<400>   13
aatcgtctta tttgcatgc                                            19


<210>   14
<211>   19
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   19 base pair clone
<400>   14
aattgacatg tgagcttgg                                            19


<210>   15
<211>   19
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   19 base pair clone
<400>   15


<210>   16
<211>   19
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   19 base pair clone
<400>   16
cagcatcact gtatgtgtc                                            19


<210>   17
<211>   19
<212>   DNA
<213>   Artificial Sequence
<220>
```

```
<223>   19 base pair clone
<400>   17
ctatcttcgt ggaggttgg                                                    19


<210>   18
<211>   19
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   19 base pair clone
<400>   18
ctatgaaggt ggtgatgcg                                                    19


<210>   19
<211>   19
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   19 base pair clone
<400>   19
cttaattggt ggttgtagg                                                    19


<210>   20
<211>   19
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   19 base pair clone
<400>   20
tggctgtatg tgagtggct                                                    19


<210>   21
<211>   19
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   19 base pair clone
<400>   21
ttaatctctg gtgtcctaa                                                    19


<210>   22
<211>   19
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   19 base pair clone
<400>   22
ttgtagggac ttggatgat                                                    19


<210>   23
<211>   15
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   Primer
<400>   23
aaaaattcga acccc                                                        15


<210>   24
<211>   50
<212>   DNA
<213>   Artificial Sequence
<220>
```

```
<221>  misc-feature
<222>  (17)... (35)
<223>  n= a, "t", "c", or"g"
<400>  24
ccccttctag attttttnnnn nnnnnnnnnn nnnnnaaaaa ttcgaacccc        50


<210>  25
<211>  35
<212>  DNA
<213>  Artificial Sequence
<220>
<221>  misc_feature
<222>  (11)... (29)
<223>  n= a, "t", "c", or"g"
<400>  25
gatctaaaaa nnnnnnnnnn nnnnnnnnnt tttta                         35


<210>  26
<211>  35
<212>  DNA
<213>  Artificial Sequence
<220>
<221>  misc_feature
<222>  (7)... (25)
<223>  n= a, "t", "c", or"g"
<400>  26
atttttnnnn nnnnnnnnnn nnnnnaaaaa ttcga                         35


<210>  27
<211>  50
<212>  DNA
<213>  Artificial Sequence
<220>
<222>  (17)... (35)
<223>  RNA coding sequence
<400>  27
ggggaagatc taaaaaaata aatgaatcaa gaacattttt aagcttgggg         50


<210>  28
<211>  50
<212>  DNA
<213>  Artificial Sequence
<220>
<222>  (17)... (35)
<223>  RNA coding sequence
<400>  28
ccccttctag attttttttat ttacttagtt cttgtaaaaa ttcgaacccc        50


<210>  29
<211>  35
<212>  DNA
<213>  Artificial Sequence
<220>
<222>  (11)... (29)
<223>  RNA coding sequence
<400>  29
gatctaaaaa aataaatgaa tcaagaacat tttta                         35


<210>  30
<211>  35
<212>  DNA
<213>  Artificial Sequence
<220>
```

```
<222>   (7)... (25)
<223>   RNA coding sequence
<400>   30
attttttttat ttacttagtt cttgtaaaaa ttcga                        35


<210>   31
<211>   9
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   primer
<400>   31
ttcaagaga                                                      9
<
210>   32
<211>   9
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   primer
<400>   32
aagttctct                                                      9


<210>   33
<211>   18
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   primer
<400>   33
acaaagcttt tccaaaaa                                            18


<210>   34
<211>   19
<212>   DNA
<213>   Artificial Sequence
<221>   misc_feature
<222>   (1)...(19)
<223>   n= a, "t", "c", or"g"
<400>   34
nnnnnnnnnn nnnnnnnnn                                           19


<210>   35
<211>   36
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   hairpin
<400>   35
cacacgtgtc ttcgaacaca atgctaatct cttgaa                        36


<210>   36
<211>   26
<212>   DNA
<213>   Artificial Sequence
<220>
<223>   Adapter
<400>   36
agcttactgc acccggggat cctgtt                                   26


<210>   37
<211>   21
<212>   DNA
```

```
<213>  Artificial Sequence
<220>
<223>  Primer
<400>  37
aactggatcc ccgggggtgca g                                           21


<210>  38
<211>  64
<212>  DNA
<213>  Artificial Sequence
<220>
<221>  misc-feature
<222>  (8)...(26)
<223>  n= a, "t", "c", or"g"
<220>
<221>  misc_feature
<222>  (36)... (54)
<223>  n= a, "t", "c", or"g"
<400>  38
gatccccnnn nnnnnnnnn nnnnnnttca agagannnnn nnnnnnnnnn nnnnttttttg    60
gaaa                                                               64


<210>  39
<211>  64
<212>  DNA
<213>  Artificial Sequence
<220>
<221>  misc_feature
<222>  (4)...(22)
<223>  n= a, "t", "c", or"g"
<220>
<221>  misc_feature
<222>  (32)...(50)
<223>  n= a, "t", "c", or"g"
<400>  39
gggnnnnnnn nnnnnnnnnn nnaagttctc tnnnnnnnnn nnnnnnnnnn aaaaacctttt    60
tcga                                                               64


<210>  40
<211>  11
<212>  DNA
<213>  Artificial Sequence
<220>
<223>  primer
<400>  40
tttttggatc c                                                       11
<210>  41
<211>  41
<212>  DNA
<213>  Artificial Sequence
<220>
<223>  Hairpin
<400>  41
gggagatctt cgcttcaacg aagatctccc ggatccaaaa a                       41


<210>  42
<211>  31
<212>  DNA
<213>  Artificial Sequence
<220>
<221>  misc_feature
<222>  (8)...(26)
<223>  n= a, "t", "c", or"g"
```

<400> 42
gatccccnnn nnnnnnnnnn nnnnnntttt t                                    31

<210> 43
<211> 29
<212> DNA
<213> Artificial Sequence
<220>
<221> misc_feature
<222> (1)...(19)
<223> n= a, "t", "c", or"g"
<400> 43
nnnnnnnnnn nnnnnnnnnt ttttggaaa                                       29

<210> 44
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<221> misc_feature
<222> (4)...(22)
<223> n= a, "t", "c", or"g"
<400> 44
gggnnnnnnn nnnnnnnnnn nnaaaaa                                         27

<210> 45
<211> 33
<212> DNA
<213> Artificial Sequence
<220>
<221> misc_feature
<222> (1)...(19)
<223> n= a, "t", "c", or"g"
<400> 45
nnnnnnnnnn nnnnnnnnna aaaacctttt cga                                  33